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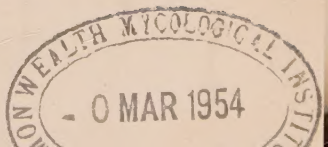

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COMMONWEALTH BUREAU OF ANIMAL HEALTH

VACANCY FOR VETERINARY OFFICER.

There is a vacancy for a Veterinary Officer in the Commonwealth Bureau of Animal Health, Weybridge.

DUTIES OF THE POST : Abstracting, searching of journals, general duties relating to publication work, proof reading, etc., the preparation of memoranda and miscellaneous work of the Bureau.

GENERAL REQUIREMENTS : A degree in Veterinary Science equivalent to Membership of the Royal College of Veterinary Surgeons. Some knowledge of languages essential and also an interest in the work of a scientific bureau.

SALARY : The salary scale plus pay addition is £600–£1,100 with provision for superannuation. Age, qualifications and experience will be taken into account when fixing the starting salary. The superannuation is that of the Federated Superannuation System for Universities, the employee contributing 5% of salary and the employer a further 10%, the whole being paid as a premium for an insurance policy concerning which the employee has a choice of policies operating within the System.

The appointment is subject to a medical certificate of fitness for the post and can be terminated at one month's notice on either side.

Applicants should give, among other particulars, name, address, date and country of birth, details of present employment, proficiency in languages, education (school, university and degrees) and experience. In addition copies of references from three persons should be sent.

Applications should reach the Director, Commonwealth Bureau of Animal Health, Veterinary Laboratory, Ministry of Agriculture and Fisheries, New Haw, Weybridge, Surrey, England, by the 31*st January*, 1953.

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(a) JOURNALS

Acta Allergologica. Sweden.
Acta Endocrinologica. Denmark.
Acta Endocrinologica. Supplements. Denmark.
Acta Medica Scandinavica. Sweden.
Acta Medica Scandinavica. Supplements. Sweden.
Acta Pathologica et Microbiologica Scandinavica. Denmark.
Acta Pathologica et Microbiologica Scandinavica. Supplements. Sweden.
Acta Tuberculosea Scandinavica. Denmark.
Acta Veterinaria Hungarica. Hungary.
Actualités Biochimiques. France.
Advancement of Science. Gt. Britain.
Agricultural Chemicals. U.S.A.
Agricultural Gazette, New South Wales. Australia.
Agricultural Institute Review. Canada.
Agricultural Journal. Colony of Fiji.
Agricultural Progress. Gt. Britain.
Agriculture. (J. Minist. Agric., Lond.). Gt. Britain.
Allied Veterinarian. U.S.A.
American Fur Breeder. U.S.A.
American Journal of Anatomy. U.S.A.
American Journal of Clinical Pathology. U.S.A.
American Journal of Hygiene. U.S.A.
American Journal of Medical Sciences. U.S.A.
American Journal of Pathology. U.S.A.
American Journal of Physiology. U.S.A.
American Journal of Public Health. U.S.A.
American Journal of Tropical Medicine. U.S.A.
American Journal of Tropical Medicine and Hygiene. U.S.A.
American Journal of Veterinary Research. U.S.A.
American Review of Tuberculosis. U.S.A.
Anales de la Facultad de Veterinaria, Montevideo. Uruguay.
Anales de la Facultad de Veterinaria de la Universidad de Madrid. Spain.
Anales del Instituto de Higiene de Montevideo. Uruguay.
Anales de la Sociedad Rural Argentina. Argentina.
Anales de la Sociedad Veterinaria de Zootecnia y Revista de Fisiopatologia de la Reproducción Animal Fecundación Artificial. Spain.
Analyst. Gt. Britain.
Anatomical Record. U.S.A.
Animal Breeding Abstracts. Gt. Britain.
Annales de l'Institut Pasteur. France.
Annales de l'Institut Pasteur de Lille. France.
Annales de Médecine Vétérinaire. Belgium.
Annales de Parasitologie Humaine et Comparée. France.
Annales de la Société Belge de Médecine Tropicale. Belgium.
Annales Universitatis Mariae Curie-Skłodowska. Sect. D.D. Poland.
Annali della Facoltà di Medicina Veterinaria. Pisa. Italy.
Annali d'Igiene (Sperimentale). Italy.
Annals of Applied Biology. Gt. Britain.
Annals of the New York Academy of Sciences. U.S.A.
Annals of Tropical Medicine and Parasitology. Gt. Britain.
Archiv für die gesamte Virusforschung. Austria.
Archives of Biochemistry. U.S.A.
Archives de l'Institut d'Hessarek. Iran.
Archives de l'Institut Pasteur d'Algérie. Algeria.
Archives de l'Institut Pasteur du Maroc. Morocco.
Archives of Pathology. U.S.A.
Archives Roumaines de Pathologie Expérimentale et de Microbiologie. Roumania.
Archivio Veterinario Italiano. Italy.
Archivos do Real Instituto Bacteriologico Camara Pestana. Portugal.
Archivos de Veterinaria Practica. Spain.
Archivos de Zootecnia. Spain.
Arquivos de Biologia e Tecnologia. Brazil.
Arquivos da Escola Superior de Veterinaria do Estados de Minas Gerais. Brazil.
Arquivos do Instituto Biologico. Departmento da Defesa Sanitaria da Agricultura. Brazil.
Askeri Veteriner Dergisi. Turkey.
Atti della Società Italiana delle Scienze Veterinarie. Italy.
Auburn Veterinarian. U.S.A.
Australian Journal of Agricultural Research. Australia.
Australian Journal of Dairy Technology. Australia.
Australian Journal of Experimental Biology and Medical Science. Australia.
Australian Journal of Science. Australia.
Australian Journal of Scientific Research. Series B. Biological Sciences. Australia.
Australian Veterinary Journal. Australia.
Bacteriological Reviews. U.S.A.
Berliner und Münchener tierärztliche Wochenschrift. Germany.
Bibliography of Agriculture. U.S.A.
Biochemical Journal. Gt. Britain.
Biological Abstracts. Section F. Animal Production and Veterinary Sciences. U.S.A.
Biological Reviews. Gt. Britain.
Blood. The Journal of Hematology. U.S.A.
Boletim de Industria Animal. (Formerly "Revista de Ind. Anim."). Brazil.
Boletim de Inseminação Artificial. Brazil.
Boletim do Instituto Vital Brazil. Brazil.
Boletim Pecuário. Portugal.
Boletim da Sociedade Brasileira de Medicina Veterinaria. Brazil.
Boletim da Sociedade Paulista de Medicina Veterinaria. Brazil.
Boletin de Divulgación Ganadera. Spain.
Boletin de Informacion. Spain.
Boletin de Informacion. Supplemento Cientifico. Spain.
Boletin del Instituto de Investigaciones Veterinarias. Venezuela.
Boletin Mensual, Direccion de Ganaderia, Montevideo. Uruguay.
Boletin de la Oficiná Sanitaria Panamericana. U.S.A.
Boletín de Zootecnia. Spain.
Bollettino dell'Istituto Sieroterapico Milanese. Italy.

Bollettino della Società Italiana di Biologia Sperimentale. Italy.
Bollettino della Società Italiana di Medicina e Igiene Tropicale. (Sezione Eritrea di Medicina Umana e Veterinaria.) Eritrea.
Bombay Veterinary College Magazine. India.
Bourgelat. France.
British Abstracts. A.III. Physiology. Biochemistry. Anatomy. Gt. Britain.
British Abstracts. B.III. Agriculture. Foods Sanitation. Gt. Britain.
British Agricultural Bulletin. Gt. Britain.
British Journal of Experimental Pathology. Gt. Britain.
British Journal of Nutrition. Gt. Britain.
British Journal of Pharmacology and Chemotherapy. Gt. Britain.
British Journal of Tuberculosis. Gt. Britain.
British Medical Bulletin. Gt. Britain.
British Medical Journal. Gt. Britain.
British Veterinary Journal. Gt. Britain.
Bulletin de l'Académie Nationale de Médecine, Paris. France.
Bulletin de l'Académie Vétérinaire de France. France.
Bulletin Agricole. Madagascar.
Bulletin Agricole du Congo Belge. Belgian Congo.
Bulletin of Animal Behaviour. Gt. Britain.
Bulletin Bibliographique. Bureau Permanent Interafricain de la Tsé-Tsé et de la Trypanosomiase, Leopoldville. Belgian Congo.
Bulletin of Entomological Research. Gt. Britain.
Bulletin of Hygiene. Gt. Britain.
Bulletin de l'Institut Pasteur. France.
Bulletin of the Johns Hopkins Hospital. U.S.A.
Bulletin Mensuel de la Société Vétérinaire Pratique de France. France.
Bulletin de Microscopie Appliquée. France.
Bulletin of the New York Academy of Medicine. U.S.A.
Bulletin de l'Office International des Epizooties. France.
(Bulletin) Office International des Epizooties. Statistiques. France.
Bulletin des Services de l'Elevage et des Industries Animales de l'Afrique Occidentale Française. French West Africa. Senegal.
Bulletin de la Société de Pathologie Exotique et de ses Filiales. France.
Bulletin de la Société des Sciences Vétérinaires de Lyon. France.
Bulletin de la Société Vétérinaire Hellénique. Greece. (Delt. Hellen. kten. Hetair.)
Bulletin (and Annual Report) State of California Department of Agriculture. U.S.A.
Bulletin Vétérinaire d'Algérie. Algeria.
Bulletin of the World Health Organization. Switzerland.
Les Cahiers de Médecine Vétérinaire. France.
California Veterinarian. U.S.A.
Canadian Journal of Chemistry. (Formerly "Canadian Journal of Research. Sect. B."). Canada.
Canadian Journal of Comparative Medicine and Veterinary Science. Canada.
Canadian Journal of Medical Sciences. (Formerly "Canadian Journal of Research. Sect. E."). Canada.
Canadian Journal of Public Health. Canada.
Canadian Journal of Technology. (Formerly "Canadian Journal of Research. Sect. F."). Canada.
Canadian Journal of Zoology. (Formerly "Canadian Journal of Research. Sect. D."). Canada.
Canadian Medical Association Journal. Canada.
Cancer Research. U.S.A.
Chemical Reviews. U.S.A.
Chinese Medical Journal. China.
Chronicle of the World Health Organization. International.
Ciencia Veterinaria (Boletin). Spain.
Ciencia Veterinaria (Revista). Spain.
La Clinica Veterinaria. Italy.
Colonial Development. Gt. Britain.
Colonial Plant and Animal Products. Gt. Britain.
Comptes Rendus de l'Académie de l'Agriculture. France.
Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences, Paris. France.
Comptes Rendus de l'Académie Bulgare des Sciences. Bulgaria.
Comptes Rendus des Séances de la Société de Biologie et de ses Filiales. France.
Conquest. (Formerly "Fight Against Disease"). Gt. Britain.
Cornell Veterinarian. U.S.A.
Criação e Veterinária. Brazil.
Current Science. India.
Dairy Science Abstracts. Gt. Britain.
Der deutsche Pelztierzüchter. Germany.
Deutsche tierärztliche Wochenschrift. Germany.
Documenta Neerlandica et Indonesica de Morbis Tropicis. Netherlands.
East African Agricultural Journal. Kenya.
East African Medical Journal. Kenya.
Edinburgh Medical Journal. Gt. Britain.
Empire Journal of Experimental Agriculture. Gt. Britain.
Encyclopédie Vétérinaire Périodique. France.
Endeavour. Gt. Britain.
Endocrinology. U.S.A.
Enzymologia. Netherlands.
Excerpta Medica. Sects. I-IV and Sect. XV. Netherlands.
Experimental Parasitology. U.S.A.
Experimentelle Veterinärmedizin. Germany.
F.A.O. Bulletin. U.S.A. (Internat.)
F.A.O. Commodity Series. U.S.A. (Internat.)
Farming in South Africa. South Africa.
Federal Veterinarian. U.S.A.
Federation Proceedings. Federation of American Societies for Experimental Biology. U.S.A.
Field Crop Abstracts. Gt. Britain.
Folia Haematologica. Germany.
Food and Agricultural Statistics. Monthly Bulletin. U.S.A. (F.A.O. Internat.)
Food and Agriculture. The F.A.O. Bulletin. U.S.A. (Internat.)
Food Science Abstracts. Gt. Britain.
Fortpflanzung und Besamung der Haustiere. Supplement to Dtsch. tierärztl. Wschr. Germany.
Frankfurter Zeitschrift für Pathologie. Germany.
Gaceta Veterinaria. Argentina.
Giornale di Batteriologia e Immunologia. Italy.
Growth. Canada.
Harefuah. Israel.
Harper Adams Utility Poultry Journal. Gt. Britain.
Health, Canberra. Australia.

Helminthological Abstracts. Gt. Britain.
Hemera Zoa. Indonesia.
Heredity. Gt. Britain.
Hoppe-Seyler's Zeitschrift für physiologische Chemie. Germany.
Indian Farming. India.
Indian Journal of Dairy Science. India.
Indian Journal of Malaria. India.
Indian Journal of Medical Research. India.
Indian Journal of Veterinary Science and Animal Husbandry. India.
Indian Medical Gazette. India.
Indian Veterinary Journal. India.
International Bulletin of Bacteriological Nomenclature and Taxonomy. U.S.A.
Internationale Zeitschrift für Vitaminforschung. Switzerland. (Internat.)
Iowa State College Veterinarian. (Formerly "Vet. Student, Iowa."). U.S.A.
Iowa Veterinarian. U.S.A.
Irish Veterinary Journal. Republic of Ireland.
Japanese Journal of Experimental Medicine. Japan.
Japanese Journal of Veterinary Science. Japan.
Jen-Sal Journal. U.S.A.
Jornal de Ciências Veterinárias. Portugal.
Journal of Agricultural Science. Gt. Britain.
Journal of Agriculture, Western Australia. Australia.
Journal of the American Medical Association. U.S.A.
Journal of the American Veterinary Medical Association. U.S.A.
Journal of Anatomy. Gt. Britain.
Journal of Animal Ecology. Gt. Britain.
Journal of Animal Science. U.S.A.
Journal of the Australian Institute of Agricultural Science. Australia.
Journal of Bacteriology. U.S.A.
Journal of Biological Chemistry. U.S.A.
Journal of the Chemical Society. Gt. Britain.
Journal of Clinical Investigation. U.S.A.
Journal of Comparative Pathology and Therapeutics. Gt. Britain.
Journal of the Council for Scientific and Industrial Research, Australia. Australia.
Journal of Dairy Research. Gt. Britain.
Journal of Dairy Science. U.S.A.
Journal of the Department of Agriculture, Eire. Republic of Ireland.
Journal of the Department of Agriculture, South Australia. Australia.
Journal of the Department of Agriculture, Victoria. Australia.
Journal of Economic Entomology. U.S.A.
Journal of Endocrinology. Gt. Britain.
Journal of the Entomological Society of South Africa. S. Africa.
Journal of Experimental Biology. Gt. Britain.
Journal of Experimental Medicine. U.S.A.
Journal of the Farmers' Club. Gt. Britain.
Journal of General Microbiology. Gt. Britain.
Journal of General Physiology. U.S.A.
Journal of Genetics. Gt. Britain.
Journal of Helminthology. Gt Britain.
Journal of Heredity. U.S.A.
Journal of Hygiene. Gt. Britain.
Journal of Immunology. U.S.A.
Journal of Infectious Diseases. U.S.A.
Journal of the Jamaica Agricultural Society. Jamaica.
Journal of the Japanese Veterinary Medical Association. Japan.
Journal of Laboratory and Clinical Medicine. U.S.A.
Journal of Medical Laboratory Technology. (Formerly "Laboratory Journal.") Gt. Britain.
Journal of Milk and Food Technology. U.S.A.
Journal of Morphology. U.S.A.
Journal of the National Cancer Institute. U.S.A.
Journal of Nutrition. U.S.A.
Journal of Parasitology. U.S.A.
Journal of Pathology and Bacteriology. Gt. Britain.
Journal of Pharmacology and Experimental Therapeutics. U.S.A.
Journal of Physiology. Gt. Britain.
Journal of the Royal Agricultural Society of England. Gt. Britain.
Journal of the Royal Army Veterinary Corps. Gt. Britain.
Journal of the Royal Institute of Public Health and Hygiene. Gt. Britain.
Journal of the Royal Microscopical Society. Gt. Britain.
Journal of the Royal Sanitary Institute. Gt. Britain.
Journal of the Science of Food and Agriculture. Gt. Britain.
Journal of the South African Veterinary Medical Association. S. Africa.
Journal of Tropical Medicine and Hygiene. Gt. Britain.
Journal of the Veterinary Association of Thailand. Thailand.
Journal of Wildlife Management. U.S.A.
Kitasato Archives of Experimental Medicine. Japan.
Le Lait. France.
Lancet. Gt. Britain.
Der Lebensmitteltierarzt. Germany.
Liste de Travaux Scientifiques Publiés au Moyen-Orient. Egypt. (U.N.E.S.C.O.)
Maanedsskrift for Dyrlaeger. Denmark.
Madras Veterinary College Annual. India.
Magyar Állatorvosok Lapja. Hungary.
Malayan Agricultural Journal. British Malaya.
Manx Journal of Agriculture. Gt. Britain.
Maroc Médical. Morocco.
Medical and Biological Illustrations. Gt. Britain.
Medical Journal of Australia. Australia.
Medical Officer. Gt. Britain.
Medicine. U S.A.
Medlemsblad for den Danske Dyrlaegeforening. Denmark.
Medycyna Weterynaryjna. Poland.
Memórias do Instituto Butantan. Brazil.
Memorias do Instituto Oswaldo Cruz. Brazil.
Merck Report. U.S.A.
Michigan State College Veterinarian. U.S.A.
Mikrobiologiya, Moscow. U.S.S.R.
Milchwissenschaft. Germany.
Monatshefte für praktische Tierheilkunde. Germany.
Monatshefte für Veterinärmedizin. Germany.
Monthly Bulletin of the Ministry of Health and the Public Health Laboratory Service. Gt. Britain.
Mycopathologia. Netherlands.
National Agricultural Advisory Service Quarterly Review. Gt. Britain.
National Association for the Prevention of Tuberculosis Bulletin. Gt. Britain.
Nature. Gt. Britain.

New Zealand Journal of Agriculture. New Zealand.
New Zealand Journal of Science and Technology. Section A. Agricultural Research Section. Section B. General Section. New Zealand.
New Zealand Medical Journal. New Zealand.
Nordisk Veterinärmedicin. Scandinavia.
North American Veterinarian. U.S.A.
Notiziario dell'Istituto Vaccinogeno Antitubercolare. Italy.
Nuova Veterinaria. Italy.
Nutrition Abstracts and Reviews. Gt. Britain.
Nutrition Reviews. U.S.A.
Onderstepoort Journal of Veterinary Research. (Formerly "Onderstepoort Journal of Vet. Sci. and Anim. Husb.") S. Africa.
Parasitology. Gt. Britain.
Pastoral Review. Australia.
Pecuaria. Anais dos Serviços de Veterinária e Indústria Animal da Colónia de Angola. Angola, Portuguese West Africa.
Pflüger's Archiv für die gesamte Physiologie des Menschen und der Tiere. Germany.
Pharmacological Reviews. U.S.A.
Philippine Agriculturist. Philippines.
Philippine Journal of Animal Industry. Philippines.
Philippine Journal of Science. Philippines.
Philisophical Transactions of the Royal Society. Series B. Gt. Britain.
Physiologia Comparata et Oecologia. Netherlands.
Physiological Reviews. U.S.A.
Polskie Archiwum Weterynaryjne. Poland.
Poultry Science. U.S.A.
Der praktische Tierarzt. Germany.
Presse Médicale. France.
Proceedings of the Helminthological Society of Washington. U.S.A.
Proceedings of the Indian Academy of Sciences. Sect. B. India.
Proceedings of the Royal Society of London. Series B. Gt. Britain.
Proceedings of the Royal Society of Medicine. Gt. Britain.
Proceedings of the Society for Experimental Biology and Medicine. U.S.A.
Profilassi. Rivista di Patologia Comparata. Italy.
Il Progresso Veterinario. Italy.
Publications of the South African Institute for Medical Research. S. Africa.
Public Health. Gt. Britain.
Public Health Reports. U.S.A.
Quarterly Journal of Experimental Physiology. Gt. Britain.
Quarterly Journal of Microscopical Science. Gt. Britain.
Queensland Agricultural Journal. Australia.
Queensland Journal of Agricultural Science. Australia.
Recueil de Médecine Vétérinaire. France.
Refuah Veterinarith. Israel.
Repositorio de Trabalhos do Laboratorio Central de Patologia Veterinaria. Portugal.
Research. Gt. Britain.
Resenha Veterinaria. Brazil
Review of Applied Entomology. Series B: Medical and Veterinary. Gt. Britain.
Review of Applied Mycology. Gt. Britain.
Revista de Agricultura. Costa Rica.
Revista Ceres. Brazil.
Revista da Faculdade de Medicina Veterinaria. Brazil.
Revista de la Facultad de Agronomia y Veterinaria. Argentina.
Revista de la Facultad de Medicina Veterinaria. Peru.
Revista de la Facultad de Medicina Veterinaria y de Zootecnia. Colombia.
Revista Grancolombiana de Zootecnia, Higiene y Medicina Veterinaria. Venezuela.
Revista del Instituto Bacteriologico "Dr. Carlos G. Malbrán". Argentina.
Revista del Instituto Nacional de Biologia Animal. Peru.
Revista de Medicina Tropical y Parasitologia, Bacteriologia, Clinica y Laboratorio. Cuba.
Revista de Medicina Veterinaria. Argentina.
Revista de Medicina Veterinaria. Chile.
Revista de Medicina Veterinaria. Portugal.
Revista de Medicina Veterinaria. Uruguay.
Revista de Medicina Veterinaria y Parasitologia. Venezuela.
Revista Militar de Remonta e Veterinaria. Brazil.
Revista de Sanidad Veterinaria. Spain.
Revista de la Sociedad de Medicina Veterinaria de Chile. Chile.
Revue Canadienne de Biologie. Canada.
Revue d'Elevage et de Médecine Vétérinaire des Pays Tropicaux. France.
Revue d'Immunologie et de Thérapie Antimicrobienne. France.
Revue de Médecine Vétérinaire. France.
La Revue d'Oka. Agronomie Médecine Vétérinaire. Canada.
La Revue de Pathologie Comparée et d'Hygiène Générale. France.
Revue Vétérinaire Militaire. France.
The Rhodesia Agricultural Journal. S. Rhodesia.
Rivista di Medicina Veterinaria e Zootecnia. Italy.
Rundschau für Fleischbeschauer und Trichinenschauer. Germany.
Sborník Československé Akademie Zemědělské. Czechoslovakia.
Scandinavian Journal of Clinical and Laboratory Investigation. Norway.
Schweizer Archiv für Tierheilkunde. Switzerland.
Schweizerische Zeitschrift für allgemeine Pathologie und Bakteriologie. Switzerland.
Science. U.S.A.
Scientific Agriculture. Canada.
Scientific Proceedings. Royal Dublin Society. Republic of Ireland.
Scottish Agriculture. Gt. Britain.
Soap and Sanitary Chemicals. U.S.A.
South African Journal of Science. Union of S. Africa.
South African Medical Journal. S. Africa.
Stain Technology. U.S.A.
Studies from the Rockefeller Institute for Medical Research. U.S.A.
Summary Tables of Biological Tests. U.S.A.
Tabulae Biologicae. [International Publications.] Netherlands.
Tasmanian Journal of Agriculture. Tasmania.
Texas Veterinary Bulletin. U.S.A.
Tierärztliche Umschau. Germany.
Tijdschrift voor Diergeneeskunde. Netherlands.
Trabajos del Instituto de Biologia Animal. Spain.
Transactions of the New York Academy of Sciences. U.S.A.

Transactions of the Highland and Agricultural Society of Scotland. Gt. Britain.
Transactions of the Royal Society of Tropical Medicine and Hygiene. Gt. Britain.
Translated Contents Lists of Russian Periodicals. D.S.I.R. Gt. Britain.
Tropical Agriculture. Trinidad. British West Indies.
Tropical Agriculturist. Ceylon.
Tropical Diseases Bulletin. Gt. Britain.
Tubercle. Gt. Britain.
Tuberculosis Index. Gt. Britain.
Türk Veteriner Hekimleri Dernegi Dergisi. Turkey.
U.N.E.S.C.O. Bulletin for Libraries. France. (International.)
United Provinces Veterinary Magazine. India.
United States Armed Forces Medical Journal. U.S.A.
University of Pennsylvania Bulletin. (Veterinary Extension Quarterly.) U.S.A.
Vacuum. Gt. Britain.
Veteran. Gt. Britain.
Veterin-Extracta. Spain.
Veterinária. (Revista dos Alunos da Escola Nacional de Veterinária.) Brazil.
Veterinaria. Spain.
Veterinaria. Yugoslavia.
Veterinariya, Moscow. U.S.S.R.
Veterinarski Arhiv. Yugoslavia.
Veterinarski Glasnik. Yugoslavia.
Veterinarstvo. Yugoslavia.
Veterinary Medicine. U.S.A.
Veterinary Record. Gt. Britain.
Veterinary Review. India.
Veterinary Student. See Iowa State College Veterinarian. U.S.A.
La Vida Agricola. (Revista de Agricultura y Ganaderia.) Peru.
Virchow's Archiv für pathologische Anatomie und Physiologie und für klinische Medizin. Germany.
Vlaams Diergeneeskundig Tijdschrift. Belgium.
Wiener tierärztliche Monatsschrift. Austria.
World's Poultry Science Journal. U.S.A.
Yale Journal of Biology and Medicine. U.S.A.
Zeitschrift für Hygiene und Infektionskrankheiten. Germany.
Zeitschrift für Krebsforschung. Germany.
Zeitschrift für Parasitenkunde. Germany.
Zeitschrift für Tropenmedizin und Parasitologie. Germany.
Zentralblatt für allgemeine Pathologie und pathologische Anatomie. Germany.
Zentralblatt für Bacteriologie, Parasit. Infekt. und Hyg. Originale: Referate. Germany.
Zhurnal Mikrobiologii. U.S.S.R.
Zooprofilassi. (Rivista Mensile di Scienza e Tecnica Veterinaria.) Italy.
Zootechnia. Spain.
Zootecnia e Veterinaria—La Fecondazione Artificiale. Italy.

(b) ANNUAL REPORTS OF GOVERNMENT DEPARTMENTS AND RESEARCH INSTITUTES ETC.

Note: As these are all reports the word "Report" is omitted in this list.

INTERNATIONAL

Work of the F.A.O.
Bureau Permanent Interafricain de la Tsé-Tsé et de la Trypanosomiase.

EUROPE

BRITISH COMMONWEALTH AND EMPIRE

Great Britain.
- Proceedings under the Diseases of Animals Act.
- Agricultural Research. Council.
- Colonial Research.
- Colonial Research Committee Progress Report.
- Colonial Development Corporation Reports and Accounts.
- Select Committee on Estimates.
- Ministry of Health.
- Medical Research Council.
- Agricultural Improvement Council for England and Wales.
- The Animal Health Trust.
- Royal Veterinary College and Hospital.
- London School of Hygiene and Tropical Medicine.
- Lister Institute of Preventive Medicine.
- Imperial Institute.
- Royal College of Surgeons of England Scientific Report.
- University of London. The College of the Pharmaceutical Society of Great Britain.
- British Empire Cancer Campaign.
- Universities Federation for Animal Welfare.
- National Institute for Research in Dairying, University of Reading.
- Northern Counties Animal Diseases Research Fund. Memorial to Alan. 8th Duke of Northumberland ("The Duke's Fund") Sheep and Lamb Diseases.
- City of Leeds. Annual Report of the Medical Officer of Health.
- City of Manchester Markets Committee.
- City and County of Newcastle-upon-Tyne, Veterinary Department.
- Animal Diseases Research Association. Moredun Institute, Edinburgh.
- Department of Health for Scotland.
- Royal College of Physicians of Edinburgh. Curator of Laboratory.
- Highland and Agricultural Society of Scotland.
- Edinburgh. Veterinary Department.
- Edinburgh and East of Scotland College of Agriculture.
- The West of Scotland Agricultural College, Glasgow.
- The Hannah Dairy Research Institute.

Northern Ireland.
- Ministry of Agriculture.
- Belfast, City Veterinarian.
- Agricultural Research Institute, Hillsborough.

Isle of Man.
- Report on Animals and on the Administration of the Cattle Diseases (Prevention) Acts, the Cattle Subsidy Schemes, and the Fat Stock (Regulation of Sale) Orders together with Agricultural Statistics.

Malta.
Department of Agriculture.

REPUBLIC OF IRELAND

Minister of Agriculture and Veterinary College of Ireland.
Diseases of Animals Acts, Quarterly Statistics.
Medical Research Council.
Dublin County Council. County Medical Officer of Health.

EUROPEAN CONTINENTAL COUNTRIES

Belgium.
Institut pour la Recherche Scientifique en Afrique Centrale.
Denmark.
Aarsberetning fra Veterinaer Direktoratet.
Meddelelse fra Kanin Kontrol Stationen.
Beretning om Sammenlignende Forsøg med Svin fra Statsanerkendte Avlscentre.
Finland.
Eläinlääkintölaitos Maatalousministeriön Eläinlääkintöosaston kertomus Vuosilta.
Italy.
Istituto Zooprofilattico Sperimentale delle Venezie, Università degli Studi di Padova.
Netherlands.
Verslag van den Directeur van den Vee Artsenijkundigen Dienst omtrent de Werkzaamheden van den Veeartsenijkundigen Dienst en den Gezondheidstoestand van den Veestapel.
Verslag over de Werkzaamheden van het Staatsveeartsenijkundig Onderzoekings Instituut.
Verslag van den Veterinair Hoofdinspector van de Volksgezondheid belast met het toezicht op Naleving van de Vleeschkeuringswet.
Verslag van de Werkzaamheden der Rijksseruminrichting.
Verslagen en Mededeelingen van de Directie van den Landbouw. (Verslag over den Landbouw in Nederland.)
Jaarverslag van de Provinciale Gezondheidsdienst voor Dieren in Zuid Holland.
Mededeelingen betreffende den Gezondheidsdienst voor Vee in Friesland.
Jaarverslag van de Centrale Commissie van Toezicht op de Uitvoering van de Kunstmatige Inseminatie.
Norway.
Veterinaervesenet. Norges Offisielle Statistikk.
Sweden.
Det Civila Veterinärväsendet. Sveriges Officiella Statistik.
Veterinärvård vid Armén. Sveriges Officiella Statistik. Hälso- och Sjukvård.
Meddelanden från Kungl. Veterinärhögskolan, Stockholm.
Meddelanden från Statens Veterinär-Medicinska Anstalt, Stockholm.
Hälso- och Sjukvård vid Försvaret av Försvarets Sjukvårds-förvaltning.

ASIA

BRITISH COMMONWEALTH AND EMPIRE

Ceylon.
Director of Agriculture.
Cyprus.
Chief Veterinary Officer.
Hong Kong.
Government Veterinary Surgeon, Hong Kong.
India.
Indian Council of Agricultural Research.
Indian Institute of Veterinary Research, Muktesar and Izatnagar.
Indian Dairy Department.
Civil Veterinary Department, Bombay Province.
Civil Veterinary Department, Assam.
Civil Veterinary Department, Orissa.
Civil Veterinary Department, East Punjab.
Civil Veterinary Department, Bihar.
Animal Husbandry Department, Himachal Pradesh.
Administration of Coorg.
Civil Veterinary Department, Manipur.
Animal Husbandry Department, Madras.
Animal Husbandry Department, United Provinces.
Malaya.
Veterinary Department, Malaya.
Pakistan.
Assistant Veterinary Investigation Officer (Poultry) Province of Sind.
Civil Veterinary Department, Sind.
Baluchistan Agency.

OTHER COUNTRIES

Japan.
Government Experimental Station for Animal Hygiene.
Statistics of Animal Hygiene, Tokyo.

AFRICA

BRITISH COMMONWEALTH AND EMPIRE

Union of South Africa.
Director of Abattoir, Livestock Markets, Veterinary Services, Ice and Cold Storage Department, Johannesburg.
South African Institute for Medical Research.
Southern Rhodesia.
Director of Veterinary Services.
Director of Veterinary Research.
Division of Entomology.
Anglo-Egyptian Sudan.
Sudan Veterinary Service.
Basutoland.
Department of Agriculture.
Bechuanaland Protectorate.
Veterinary Department.
Gambia.
Veterinary Department.
Department of Development and Agriculture.
Gold Coast.
Department of Animal Health.
Kenya.
East African Veterinary Research Organisation.
Department of Veterinary Services.
Mauritius.
Department of Agriculture.
Nigeria.
Veterinary Department, Northern Provinces.
Sleeping Sickness Service.
Northern Rhodesia.
Veterinary Department.
Game and Tsetse-Control Department.

Nyasaland Protectorate.
Veterinary Department.
Seychelles.
Department of Agriculture.
Sierra Leone.
Veterinary Department.
Somaliland Protectorate.
Veterinary Report.
Swaziland.
Veterinary Department.
Livestock and Agricultural Department.
Department of Native Land Settlement.
Tanganyika Territory.
Department of Veterinary Science and Animal Husbandry.
Tsetse Research Department.
Uganda Protectorate.
Veterinary Department.
Zanzibar.
Annual Report of the Department of Agriculture.

BELGIAN TERRITORIES

Institut pour la Recherche Scientifique en Afrique Centrale.

FRENCH UNION

L'Institut Pasteur du Maroc.
L'Institut Pasteur de Brazzaville Congo.
Archive de l'Institut Pasteur Tananarive. (Extrait du Rapport Annuel.)

AMERICA

BRITISH COMMONWEALTH AND EMPIRE

Canada.
Veterinary Director General, Production Service of Agriculture.
Science Service, Dominion Department of Agriculture.
National Research Council. Review.
National Research Council of Canada.
Minister of Agriculture, Dominion of Canada.
Fur Farms of Canada.
Alberta. Department of Agriculture.
British Columbia. Department of Agriculture. Agricultural Statistics. Provincial Game Commission Report.
Crops, Livestock etc., Manitoba.
Department of Agriculture of the Province of New Brunswick.
Department of Agriculture, Province of Nova Scotia.
Ontario Veterinary College.
Department of Agriculture of the Province of Prince Edward Island.
Minister of Agriculture of the Province of Quebec.
Department of Agriculture for Saskatchewan.
Bermuda.
Department of Agriculture.
British Guiana.
Livestock and Veterinary Division.
Director of Agriculture.
Crop and Livestock Census.
British Honduras.
Department of Agriculture. Survey of the Livestock Industry by the Veterinary Officer.
Falkland Islands.
Department of Agriculture.
Stock Returns.
Bahamas.
Agricultural and Marine Products Board.
Jamaica.
Veterinary and Livestock Divisions Department of Agriculture.
Leewards Islands.
Veterinary Officer, Antigua.
Director of Agriculture.
Trinidad.
Director of Agriculture.
Director of Medical Services.
Windward Islands.
Agricultural Department, Dominica.
Agricultural Department, Grenada.
Department of Agriculture, St. Lucia.
Advisory Department of the Imperial College of Tropical Agriculture, St. Lucia.
Agricultural Department, St. Vincent.

FRENCH UNION

L'Institut Pasteur de Guyane Française et du Territoire de l'Inini.

UNITED STATES OF AMERICA

Secretary of Agriculture. U.S. Department of Agriculture, Washington, D.C.
Bureau of Animal Industry, Department of Agriculture.
National Livestock Loss Prevention Board.
Administrator of Agricultural Research.
Agricultural Experiment Stations.
Conference of Laboratory Workers in Pullorum Disease Control.
Participation in the National Poultry Improvement Plan. Bureau of Animal Industry.
Surgeon General of the Public Health Service of the U.S.A.
Surgeon General, U.S. Army. (War Department.)
Gorgas Memorial Laboratory, Washington, D.C.
Bureau of Dairy Industry. Agricultural Research Administration.
Bureau of Entomology and Plant Quarantine.
Rockefeller Foundation. International Health Division.
Commonwealth Fund.
Agricultural Experiment Station of Alabama.
University of Arizona, College of Agriculture, Agricultural Experiment Station, Tucson, Arizona.
University of Arkansas College of Agriculture, Agricultural Experiment Station.
Livestock Department, Los Angeles County, California.
State of California, Department of Agriculture.
Agricultural Experiment Station, College of Agriculture, University of California.
Colorado Agricultural Experiment Station.
Storrs Agricultural Experiment Station, Connecticut.
Connecticut Agricultural Experiment Station, New Haven.
Connecticut State Entomologist.
University of Delaware, Agricultural Experiment Station.

University of Florida, Agricultural Experiment Station.
Georgia Experimental Station of the University System of Georgia.
Georgia Coastal Plain Experiment Station.
Agricultural Experiment Station. University of Idaho.
University of Illinois. Agricultural Experiment Station.
Purdue University, Indiana. Agricultural Experiment Station, Lafayette.
Agricultural Research. Iowa State College of Agriculture.
Manhattan, Kansas. Agricultural Experiment Station.
Agricultural Experiment Station of the University of Kentucky.
Agricultural Experiment Station, Louisiana State University and Agricultural and Mechanical College.
North-East Louisiana Experiment Station. (Biennial.)
North Louisiana Experiment Station. (Biennial.)
Maine Agricultural Experiment Station.
Agricultural Experiment Station, University of Maryland.
Massachusetts Agricultural Experiment Station.
School of Veterinary Medicine, Michigan State College, East Lansing.
State Board of Agriculture of the State of Michigan.
Agricultural Experiment Station Michigan State College of Agriculture.
Regional Poultry Research Laboratory, Michigan.
Agricultural Experiment Station, University of Minnesota.
Mississippi Experiment Station.
Missouri Agricultural Experiment Station.
Livestock Sanitary Board, Montana.
Montana Agricultural Experiment Station.
State Entomologist of Montana.
Agricultural Experiment Station, Nebraska.
State of Nevada. State Department of Agriculture. (Biennial.)
New Hampshire Agricultural Experiment Station.
New Jersey State Agricultural Experiment Station.
Agricultural Experiment Station of the New Mexico College of Agriculture and Mechanic Arts.
New York State Veterinary College at Cornell University.
New York Agricultural Experiment Station.
New York State Association of Milk Sanitarians.
North Carolina Agricultural Experiment Station.
Experiment Station Progress, North Dakota, Agricultural College.
Ohio Agricultural Experiment Station, Wooster.
Ohio Agricultural Statistics.
Oklahoma Agriculture and Mechanic Arts College, Agricultural Experiment Station.
Oregon State College, Agricultural Experiment Station. (Biennial.)
Pennsylvanian Agricultural Experiment Station.
Rhode Island State College, Agricultural Experiment Station.
South Carolina Experiment Station, Clemson Agricultural College.
South Dakota Agricultural Experiment Station.
University of Tennessee Agricultural Experiment Station.
Texas Agricultural Experiment Station.
Utah Agricultural Experiment Station (Biennial.)
Vermont Agricultural Experiment Station, University of Burlington, Vermont.
Virginia Agricultural Experiment Station.
State College of Washington, Agricultural Experiment Station.
Western Washington Experiment Station
West Virginia Agricultural Experiment Station.
University of Wisconsin, Madison, Agricultural Experiment Station.
Wyoming Agricultural Experiment Station.
Puerto Rico Experiment Station.
Virgin Islands.
Hawaii Agricultural Experiment Station.

AUSTRALASIA AND OCEANIA

British Commonwealth and Empire

Australia.
Commonwealth Scientific and Industrial Research Organization.
Australian Wool Board.
Live Stock Report. New South Wales.
Northern Territory Administration. Animal Industry Division.
Queensland. Division of Animal Industry.
"Stock and Brands" Department, South Australia.
The Institute of Medical and Veterinary Science, South Australia.
Department of Agriculture, Western Australia.
New Zealand.
Department of Scientific and Industrial Research.
Animal Research Division of the Department of Agriculture.
Livestock Division, Department of Agriture.
New Zealand Society of Animal Production.
Dairy Board.
Canterbury Agricultural College, University of New Zealand.
Cawthron Institute.
Tasmania.
Animal Health Service, Department of Agriculture.
Fiji.
Veterinary Division, Department of Agriculture.

PLAN OF ARRANGEMENT OF ABSTRACTS IN THE VETERINARY BULLETIN

The following is a guide to the order of abstracts in the *Veterinary Bulletin*. For diagnosis and diagnostic agents (tuberculin etc.) see under appropriate disease. The guide is necessarily limited to key words and frequently occurring items.

Abstracts are serially numbered and cross-referenced by number among the twenty-one different sections.

I. Diseases Caused by Bacteria and Fungi

AEROBES
- Cocci
  - Staphylococci
  - Streptococci
  - Mastitis (under appropriate causal agent)
  - Strangles
  - Micrococci (including Botryomycosis)
  - Vibrios
  - Spirilla
- Bacilli
  - Anthrax
- Mycobacteria
  - Tuberculosis
  - Johne's disease
- Corynebacteria
  - Caseous lymphadenitis
  - Ulcerative lymphangitis
- *Pfeifferella mallei* (Glanders)
- *Erysipelothrix rhusiopathiae* (Swine Erysipelas)
- *Erysipelothrix (Listeria) monocytogenes*
- *Pasteurella*
  - Haemorrhagic septicaemia
- *Pseudomonas*
- *Haemophilus*
- *Proteus*
- Colon-Typhoid Group
- Salmonella Group
  - Infection in mammals
    - Abortion in mares
    - Abortion in ewes
    - Porcine enteritis
  - Infection in birds
    - Pullorum disease (B.W.D.)
    - Fowl typhoid
  - Meat poisoning infections
- Brucella Group
  - *Br. abortus*
  - *Br. suis*
  - *Br. melitensis*
  - *Br. tularensis*
- Spirochaetes
  - *Leptospira*

ANAEROBES
- Clostridia
  - Blackleg
  - Malignant oedema
  - Clostridial infections of sheep
  - Tetanus
  - Botulism
- Vibrios
- *Fusiformis*

FUNGI
- *Mucor*
- *Coccidioides*
- *Candida*
- *Histoplasma*
  - *Histoplasma capsulatum*
  - *Histoplasma farciminosum* (Epizootic Lymphangitis)
- Ringworm
- *Aspergillus*
- *Actinomyces*
- *Actinobacillus*

PLEURO-PNEUMONIA GROUP
- Bovine Contagious Pleuro-Pneumonia
- Pleuro-Pneumonia-Like Organisms including Contagious Agalactia of Goats and Sheep

BACTERIAL FLORA OF ANIMAL TISSUES

METABOLISM AND NUTRITION OF MICRO-ORGANISMS

VARIOUS OTHER UNCLASSIFIED MICRO-ORGANISMS
- *Bartonella*
- *Eperythrozoon*
- *Grahamella*

II. Diseases Caused by Protozoan Parasites

- Amoebiasis
- Trypanosomiasis
- Leishmaniasis
- Trichomoniasis
- Blackhead of Turkeys *(Histomonas meleagridis)*
- Infectious Enteritis of Turkeys *(Hexamita)*
- Coccidiosis
- Malaria
- Piroplasmosis
- Theileriasis
- Anaplasmosis
- Toxoplasmosis
- Sarcosporidiosis

III. Diseases Caused by Viruses and Rickettsia.

- Virus Infections not Limited to Single Species
  - Foot and mouth disease
  - Aujeszky's disease
  - Rabies
  - Pox diseases
  - Influenza group
  - Encephalitis group
    - Equine encephalomyelitis
- Virus Diseases of Equines
  - Respiratory infections
  - Equine infectious anaemia
  - African horse sickness
  - Virus abortion
- Virus Diseases of Cattle
  - Rinderpest
  - Bovine malignant catarrh
  - Three-day fever
  - Respiratory infections
  - Lumpy skin disease
- Virus Diseases of Sheep and Goats
  - Bluetongue
  - Contagious ecthyma
  - Louping-Ill
  - Virus abortion
- Virus Diseases of Swine
  - Swine fever
  - Porcine encephalomyelitis (Teschen disease)
  - Vesicular exanthema
- Virus Diseases of Carnivora
  - Of dogs
  - Of cats
  - Of foxes
  - Of other Carnivora
- Virus Diseases of Rodents
- Virus Diseases of Birds
  - Fowl plague
  - Newcastle disease
  - Respiratory infections
  - Psittacosis
- Virus Diseases of Man
- Bacteriophage
- Rickettsial Infections
  - Heartwater
  - Rickettsial conjunctivitis

IV. Immunity

- General Immunology
- Immunization and Immunizing Agents

Serology
Allergy and Anaphylaxis
Tissue Invasiveness (Permeability)
Various

V. **Parasites in Relation to Disease [General]**

VI. **Parasites in Relation to Disease [Arthropods]**
Lice
Bugs
Fleas
Dipterous Flies
Blowflies and fleshflies
Oestrids (warbleflies and botflies)
Biting muscids *(Stomoxys, Siphona, Glossina)*
Tabanids
Midges
Mosquitoes
Sheep ked
Pentastomes
Linguatula
Ticks
Mites

VII. **Parasites in Relation to Disease [Helminths]**
TREMATODES
CESTODES
Taenia
Cysticercosis
Echinococcosis
NEMATODES
Strongyloides
Trichurids
Trichinosis
Strongyles
Sclerostomes
Hookworms
Parasitic gastro-enteritis
Lungworms
Poultry gapeworm
Oxyurids
Ascarids
Spirurids
Filariae
Acanthocephala

VIII. **Spontaneous and Transmissible Neoplasms and Leucaemias [Including Fowl Paralysis]**
Spontaneous Tumours
Cancer Research
Virus Tumours of Rodents
Fowl Sarcoma
Fowl Paralysis

IX. **Nutritional and Metabolic Disorders**
General Nutrition
Carbohydrates, Fats, Proteins, Amino Acids, etc.
Minerals
Osteodystrophia and Rickets
Vitamins
Metabolic Disorders

X. **Diseases, General**
General and Collective
Special Animal Pathology—Unclassified Diseases of Particular Animals
Haematology
Special Regional Pathology—Unclassified Diseases of Particular Body Systems
Histopathology

XI. **Poisons and Poisoning**
Inorganic
Organic and Alkaloid
Plant Poisons
Photosensitization
Poisoning by Ingestion of Arthropods
Venoms
Poisoning by Therapeutic Agents
Miscellaneous including War Gases

XII. **Pharmacology and General Therapeutics**
(For treatment of specific infections see under the appropriate disease.)
General Chemotherapy and Pharmacology
Antibiotics
Treatment of Unclassified Diseases
Vitamin Therapy
Hormone Therapy
Antidotes
Anaesthesia
Wound Treatment
Antiseptics and Disinfectants

XIII. **Physiology, Anatomy and Biochemistry**
General
Enzymes
Metabolism
Lactation
Normal Haematology and Blood Groups
Regional Physiology (Circulatory, Digestive, Respiratory, Nervous, Skeletal, Urino-Genital and Endocrine Systems)
Wound Healing
Anatomy
Biochemistry

XIV. **Public Health, Veterinary Services and Veterinary Education**
Milk Hygiene
Meat Hygiene
Food Poisoning
Rodent Control
Legislation and Veterinary Police Measures
Education

XV. **Livestock Hygiene**
Farm Buildings
Ventilation
Drainage
Disinfection
Water Supply
Pastures and Grazing
Conservation of Foodstuffs and Fodder

XVI. **Reproduction and Reproductive Disorders**
Artificial Insemination
Pregnancy Diagnosis
Sex Hormones
Sterility and Infertility
Hereditary Diseases
Lethal Factors and Teratology
Management of Breeding Stock

XVII. **Zootechny**
Acclimatization
Marking and Identification of Livestock
Dips and Dipping Tanks
Dehorning
Shearing
Castration
Hides and Skins
Humane Slaughter
Various

XVIII. **Technique and Apparatus**
Bacteriological
Parasitological
Microscopy and Optics
Histological
Laboratory, Various

XIX. **Miscellaneous**

XX. **Reports** (of State and Local Government Departments and of Institutes, Schools, and Other Corporate Bodies)

XXI. **Book Reviews**